

**EXHIBIT B**  
**Ultravision's Proposed Constructions**

#	Claim Term(s)	Patent(s) <sup>1</sup> & Claim(s)	Ultravision's Proposed Construction	Ultravision's Intrinsic and Extrinsic Evidence
1	substantially transparent	'410: <b>1</b> , <b>13</b>  '413: <b>5</b> , <b>11</b> , 18	<i>plain and ordinary meaning or, in the alternative</i>  "clear"	'410 Patent:  Abstract  FIGS 5A–D, 8A–J  1:18–29, 4:64–5:48, 5:65–6:11, 6:65–7:3, 7:65–8:15  Merriam-Webster's Collegiate Dictionary (11th ed. 2004), UVT-LFH00002580  Illuminating Engineering Society (IESNA), <i>The Lighting Handbook</i> (10th ed. 2011), UVT-LFH00001190  Gary Gordon, <i>Interior Lighting for Designers</i> (4 <sup>th</sup> ed. 2003), UVT-LFH00003376

<sup>1</sup> U.S. Patent Nos. 8,870,410; 8,870,413\*; 9,734,738\*\*\*; 9,947,248\*\*\*, and 10,223,946\*\*

\* asserted against Holophane and Yaham only

\*\* asserted against Holophane only

\*\*\* asserted against Yaham only

All citations to the intrinsic record related to the Patents-in-Suit are made to the '410 patent for simplicity unless otherwise notes.

Ultravision reserves the right to cite to the same disclosure found in the other Patents-in-Suit.

A citation to a figure includes all corresponding descriptions of that figure, and a citation to a description includes its corresponding figure(s) and any surrounding language.

#	Claim Term(s)	Patent(s) <sup>1</sup> & Claim(s)	Ultravision's Proposed Construction	Ultravision's Intrinsic and Extrinsic Evidence
				Ultravision may rely on the expert testimony of Dr. Zane Coleman connection with this claim term. A disclosure of such testimony is being served on counsel for Defendants simultaneously with this filing pursuant to P.R. 4-3(b).
2	[each of the plurality of optical elements comprises] a first lens element and a second lens element disposed over the first lens element	'410: <b>1</b> , 16, 22  '413: 3, 7, 13	<i>plain and ordinary meaning</i>	'410 Patent:  Abstract  FIGS 5A–D, 8A–J  1:18–29, 4:64–5:48, 5:65–6:11, 6:65–7:3, 7:65–8:15  U.S. Patent Application No. 13/836,612:  June 5, 2014 Amendment
3	substantially the entire display surface	'410: <b>1</b> , <b>15</b> , <b>21</b>	<i>plain and ordinary meaning</i>	'410 Patent:  Abstract  FIGS 1A–D  1:18–29, 2:10–22, 2:33–37, 2:49–64, 5:4–6:52, 8:6–15  U.S. Patent Application No. 13/836,612:  June 5, 2014 Amendment

#	Claim Term(s)	Patent(s) <sup>1</sup> & Claim(s)	Ultravision's Proposed Construction	Ultravision's Intrinsic and Extrinsic Evidence
				<p>U.S. Patent Application No. 14/137,343:</p> <p>June 5, 2014 Amendment</p> <p>Ultravision may rely on the expert testimony of Dr. Zane Coleman connection with this claim term. A disclosure of such testimony is being served on counsel for Defendants simultaneously with this filing pursuant to P.R. 4-3(b).</p>
4	substantially uniform	'410: <b>10</b>	“does not create noticeable unevenness, such as hot spots and dead spots”	<p>'410 Patent:</p> <p>Abstract</p> <p>FIGS 5A–D, 8D–J</p> <p>1:18–29, 2:49–66, 5:4–6:30</p> <p>U.S. Patent Application No. 13/836,612:</p> <p>June 5, 2014 Amendment</p> <p>Merriam-Webster's Collegiate Dictionary (11th ed. 2004), UVT-LFH00002580</p> <p>Outdoor Advertising Association of America (OAAA), <i>LED Lighting Guidance for Outdoor Advertising Owners and</i></p>
	substantially equal level of illumination	'410: <b>1, 15, 21</b>		
	a uniformity ... remains substantially unchanged	'248: 3		
	the uniformity of light ... remains substantially the same	'738: <b>19, 20</b> '946: 12		

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				<p><i>Operators</i> (Aug. 29, 2013), UVT-LFH00002586</p> <p>Illuminating Engineering Society (IESNA), RP-19-01, <i>Roadway Sign Lighting</i> (2001), UVT-LFH00001124</p> <p>Illuminating Engineering Society (IES), DG-22-12, <i>Design Guide for Sustainable Lighting</i> (2012), UVT-LFH00007031</p> <p>Illuminating Engineering Society (IESNA), RP-33-99, <i>Lighting for Exterior Environments</i> (1999), UVT-LFH00001140</p> <p>Illuminating Engineering Society (IES), <i>The Lighting Handbook</i> (9<sup>th</sup> ed. 2000), UVT-LFH00005028</p> <p>Illuminating Engineering Society (IESNA), <i>The Lighting Handbook</i> (10<sup>th</sup> ed. 2011), UVT-LFH00001190</p> <p>Defendants' materials, including:  <a href="https://img.acuitybrands.com/">https://img.acuitybrands.com/</a></p>

#	Claim Term(s)	Patent(s) <sup>1</sup> & Claim(s)	Ultravision's Proposed Construction	Ultravision's Intrinsic and Extrinsic Evidence
				<p>public-assets/catalog/939216/mongoose-led-family-brochure.pdf</p> <p><a href="https://img.acuitybrands.com/public-assets/catalog/885181/lithonia-rsx-led-area-and-flood-complete-presentation-customer---september-2019.pdf">https://img.acuitybrands.com/public-assets/catalog/885181/lithonia-rsx-led-area-and-flood-complete-presentation-customer---september-2019.pdf</a></p> <p><a href="https://yahamlighting.com/readnews/led-billoard-light.html">https://yahamlighting.com/readnews/led-billoard-light.html</a></p> <p>Claim construction record from <i>Ultravision Technologies, LLC v. Lamar Advertising Co. et al.</i>, No. 2:16-cv-00374-JRG-RSP (E.D. Tex.), including all applicable briefing, declarations, evidence, and transcripts, including: UVT-LFH00002594–904</p> <p>Ultravision may rely on the expert testimony of Dr. Zane Coleman connection with this claim term. A disclosure of such testimony is being served on counsel for Defendants simultaneously with this filing</p>

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				pursuant to P.R. 4-3(b).
5	substantially no illumination	'410: 7, 12, 19, 25  '413: 2, 17	<i>plain and ordinary meaning</i>	'410 Patent:  Abstract  FIGS 5A–D, 8D–J  1:18–29, 2:49–64, 5:4–25  U.S. Patent Application No. 13/836,612:  June 5, 2014 Amendment  Merriam-Webster's Collegiate Dictionary (11th ed. 2004), UVT-LFH00002580
	areas beyond edges ... receive substantially no illumination	'410: 7, 12, 19, 25	<i>plain and ordinary meaning</i>	
6	minimal amount of illumination	'413: 6, <b>16</b>	"compliant with IES recommended light trespass guidelines"	Outdoor Advertising Association of America (OAAA), <i>LED Lighting Guidance for Outdoor Advertising Owners and Operators</i> (Aug. 29, 2013), UVT-LFH00002586  Illuminating Engineering Society (IESNA), RP-19-01, <i>Roadway Sign Lighting</i> (2001), UVT-LFH00001124  Illuminating Engineering Society (IES), DG-22-12, <i>Design Guide for Sustainable Lighting</i> (2012),
	areas beyond edges ... receive minimum illumination	'738: <b>19</b>	"compliant with IES recommended light trespass guidelines"	

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				<p>UVT-LFH00007031</p> <p>Illuminating Engineering Society (IESNA), RP-33-99, <i>Lighting for Exterior Environments</i> (1999), UVT-LFH00001140</p> <p>Illuminating Engineering Society (IES), <i>The Lighting Handbook</i> (9<sup>th</sup> ed. 2000), UVT-LFH00005028</p> <p>Illuminating Engineering Society (IESNA), <i>The Lighting Handbook</i> (10<sup>th</sup> ed. 2011), UVT-LFH00001190</p> <p>Joint International Dark-Sky Association (IDA) – Illuminating Engineering Society (IESNA), <i>Model Lighting Ordinance (MLO) with User's Guide</i> (June 15, 2011), UVT-LFH00002536</p> <p>Illuminating Engineering Society (IESNA), TM-11-00 <i>Light Trespass: Research, Results, and Recommendations</i> (2000), UVT-LFH00002521</p>

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				<p>Illuminating Engineering Society (IESNA), TM-34-19, <i>Technical Memorandum: Calculation Procedures and Specification Criteria</i> (2019), UVT-LFH00002905</p> <p><i>Kohei Narisada et al.</i>, 1 <i>Light Pollution Handbook</i> (2004), UVT-LFH00006065</p> <p>Duco Schreuder, <i>Outdoor Lighting: Physics, Vision and Perception</i> (2008), UVT-LFH00002914</p> <p>Claim construction record from <i>Ultravision Technologies, LLC v. Lamar Advertising Co. et al.</i>, No. 2:16-cv-00374-JRG-RSP (E.D. Tex.), including all applicable briefing, declarations, evidence, and transcripts, including: UVT-LFH00002594–904</p> <p>Ultravision may rely on the expert testimony of Dr. Zane Coleman connection with this claim term. A disclosure of such testimony is being served on counsel for Defendants simultaneously with this filing</p>



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				pursuant to P.R. 4-3(b).
7	[optics panel is configured to be attached to] a heat sink comprising a power supply enclosure disposed on the heat sink	'410: 11 '413: <b>11</b>	<i>plain and ordinary meaning</i>	'410 Patent: FIG 3B, 6B–C, 7A–B 2:65–3:8, 3:18–21, 3:64–4:14, 3:64–4:13, 4:34–42, 7:4–48 U.S. Patent Application No. 13/836,710: June 5, 2014 Amendment Ultravision may rely on the expert testimony of Dr. Zane Coleman connection with this claim term. A disclosure of such testimony is being served on counsel for Defendants simultaneously with this filing pursuant to P.R. 4-3(b).
8	An optics panel for use in a light emitting diode (LED) lighting assembly comprising	'410: <b>1, 10, 15</b> '413: <b>1, 5, 11, 16</b>	<i>preamble not limiting</i> <i>plain and ordinary meaning</i>	'410 Patent: Abstract FIGS 3C, 5A–D, 6A–C, 8A–J, 9 1:18–29, 1:43–45, 1:48–52, 1:55–62, 2:6–93:9–29, 4:44–57, 6:31–64, 7:52–8:15
	An optics panel for use in a light emitting	'410: 10		

#	Claim Term(s)	Patent(s) <sup>1</sup> & Claim(s)	Ultravision's Proposed Construction	Ultravision's Intrinsic and Extrinsic Evidence
	diode (LED) lighting assembly for illuminating a billboard that has a display surface extending between outer edges of the billboard, the optics panel comprising	413: 1, 5, 11		
9	area	'946: <b>1, 2</b> <b>30</b>	<i>plain and ordinary meaning</i>	'410 Patent: Abstract FIGS 1A–D 1:18–29, 2:10–22, 2:33–37, 2:49–64, 5:4–6:52, 8:6–15
	rectangular area	'248: <b>1</b> '946: <b>29</b>		
	rectangular region	'738: <b>19</b> , <b>20</b>		
10	display surface	'410: <b>1, 7</b> , <b>10</b> , 12, 14, <b>15</b> , 19, 20, <b>21</b> , 25, 26 '413: <b>1, 2, 4</b> , <b>5</b> , 6, 10, <b>11</b> , 12, <b>16</b> , 17	<i>plain and ordinary meaning</i>	'410 Patent: Abstract FIGS 1A–D 1:18–29, 2:10–22, 2:33–37, 2:49–64, 5:4–6:52, 8:6–15 U.S. Patent Application No. 13/836,612: June 5, 2014 Amendment Illuminating Engineering Society (IESNA), <i>The Lighting Handbook</i> (10th ed. 2011), UVT-LFH00001190

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11	predetermined bounded area	'410: <b>1, 21</b>	<i>plain and ordinary meaning</i>	'410 Patent: Abstract FIGS 1A–D 1:18–29, 2:10–22, 2:33–37, 2:49–64, 5:4–6:52, 8:6–15
12	desired uniformity ratio	'410: 4	<i>plain and ordinary meaning</i>	'410 Patent: Abstract 1:18–29, 2:49–66, 5:4–6:30 '413 Patent claims 1, 5, 11, 16 U.S. Patent Application No. 14/137,343: June 5, 2014 Amendment Outdoor Advertising Association of America (OAAA), <i>LED Lighting Guidance for Outdoor Advertising Owners and Operators</i> (Aug. 29, 2013), UVT-LFH00002586 Illuminating Engineering Society (IESNA), RP-8-00, <i>Roadway Lighting</i> (2000), UVT-LFH00003697

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				<p>Illuminating Engineering Society (IESNA), RP-19-01, <i>Roadway Sign Lighting</i> (2001), UVT-LFH00001124</p> <p>Illuminating Engineering Society (IESNA), RP-33-99, <i>Lighting for Exterior Environments</i> (1999), UVT-LFH00001140</p> <p>Illuminating Engineering Society (IESNA), LM-52-03, <i>IESNA Guide for Photometric Measurements of Roadway Sign Installations</i>, UVT-LFH00003682</p> <p>Ultravision may rely on the expert testimony of Dr. Zane Coleman connection with this claim term. A disclosure of such testimony is being served on counsel for Defendants simultaneously with this filing pursuant to P.R. 4-3(b).</p>

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